

New York State Department of Transportation

Yellow Flag NB2222W017

By: Sahadeo Bhagwandin
Flag Date: December 08, 2022

Superseding Information:
No Flags Superseded

Structure Information

BIN: 1065318
Feature Carried: 278I278IX2M23027
Feature Crossed: 6TH AVENUE
Orientation: 8 - NORTHWEST
Region: 11 - NEW YORK CITY
County: KINGS
Political Unit: City of NEW YORK
Approximate Year Built: 1962
Posted Load Matches Inventory : Yes
Bridge Load Posting (Tons) : Not Posted for Load
Primary Owner: New York State Department of Transportation
Primary Maintenance Responsibility: 12 - State - Subcontracted to another Party
Typical or Main Span Type: 3 - Steel, 02 - Stringer/Multi-Beam or Girder
This Bridge is not a Ramp
Number of Spans: 322

Verbal Notification Information

Person Notified: Heinz Joachim, P.E.
Date: December 08, 2022 2:00:00 PM
Of: NYSDOT Region 11

Signature Information

Signature: Sahadeo Bhagwandin, P.E. 088239-1
Date: December 12, 2022
Reviewed By: Robert Kemp
Date: December 12, 2022

Attachments: 9

Flagged Elements

Parent Element	Element	Total Quantity	Unit
Span Number : 129			
	107 - Steel Open Girder/Beam	781	ft
	PR831 - Steel Beam End	34	each

Flagged Condition Description

This Yellow Flag No. NB2222W017 is New.

Location: Span 129, Girder G14 at Pier 128 over 3rd Avenue, Eastbound.

Description: The end of Girder G14 in Span 129 at Pier 128 exhibits a 3/4" long vertical through crack in the upper web stemming from the top cope and extending downwards (Photos 4 & 5).

In addition, the area surrounding the crack at the right side of the girder has up to 3/16" deep section loss over an 8" H x 4" W area and on the left side 1/8"-3/16" deep section loss over a 13" H x 12" W area (Photos 5 & 6). D-Meter readings indicate up to 55% section loss. The lower right side of web has up to 3/16" deep section loss for 4' L x 1"-4" H and the lower left side of the web has up to 3/16" deep section loss for 4' L x 1"-3" H (Photos 7 & 8). D-Meter readings indicate up to 55% section loss. The top of the bottom flange at the left and right sides has 1/8"-3/16" deep pitting for 30"- 48" L x 2"-5" W (Photo 9). The web stiffener angle at the right side has 1/8"-3/16" deep section loss at the vertical leg for 7" L x 3" H and the bottom flange has 1/8"-3/16" deep pitting for 18" L x 5" W. The horizontal web stiffener at the left side has 1/8"-3/16" deep section loss for 18" L and the 6 lower rivets have 30%-50% section loss (Photo 9). The left side guide angle has 1/8" deep section loss x 8" H x 3" W.

This is a newly flagged condition.

Notes:

1. The newly applied primer was not removed to determine the size of the crack. The length of the crack was determined solely by visual inspection.
2. Girder G13 spaced approximately 6'- 9" from the centerline of G14 has recently been cleaned and primed. The web and bottom flange have up to 1/8" deep section loss near the connection angle. Girder G15 similarly spaced from the centerline of G14 has been recently cleaned and primed. The web and top of bottom flange exhibit 1/8"-3/16" deep section loss adjacent to the connection angle.
3. The Safe Span shielding installed by the Painting Contractor El Sol was used to access the location. Note: In the absence of the shielding, a single left lane closure on 3rd Avenue Eastbound (inbound) between 45th and 46th Streets will be required to access the location.
4. The previous 2021 Biennial Report documented the above location as CS-3 with the following Condition State: Girder G14 exhibits up to 30% section loss in the web above the bottom flange in front of the bearing.

Flag Photographs

Photo Number: 1

Photo Filename: YF NB2222W017 _ Span 129 G4 at Pier 128 _

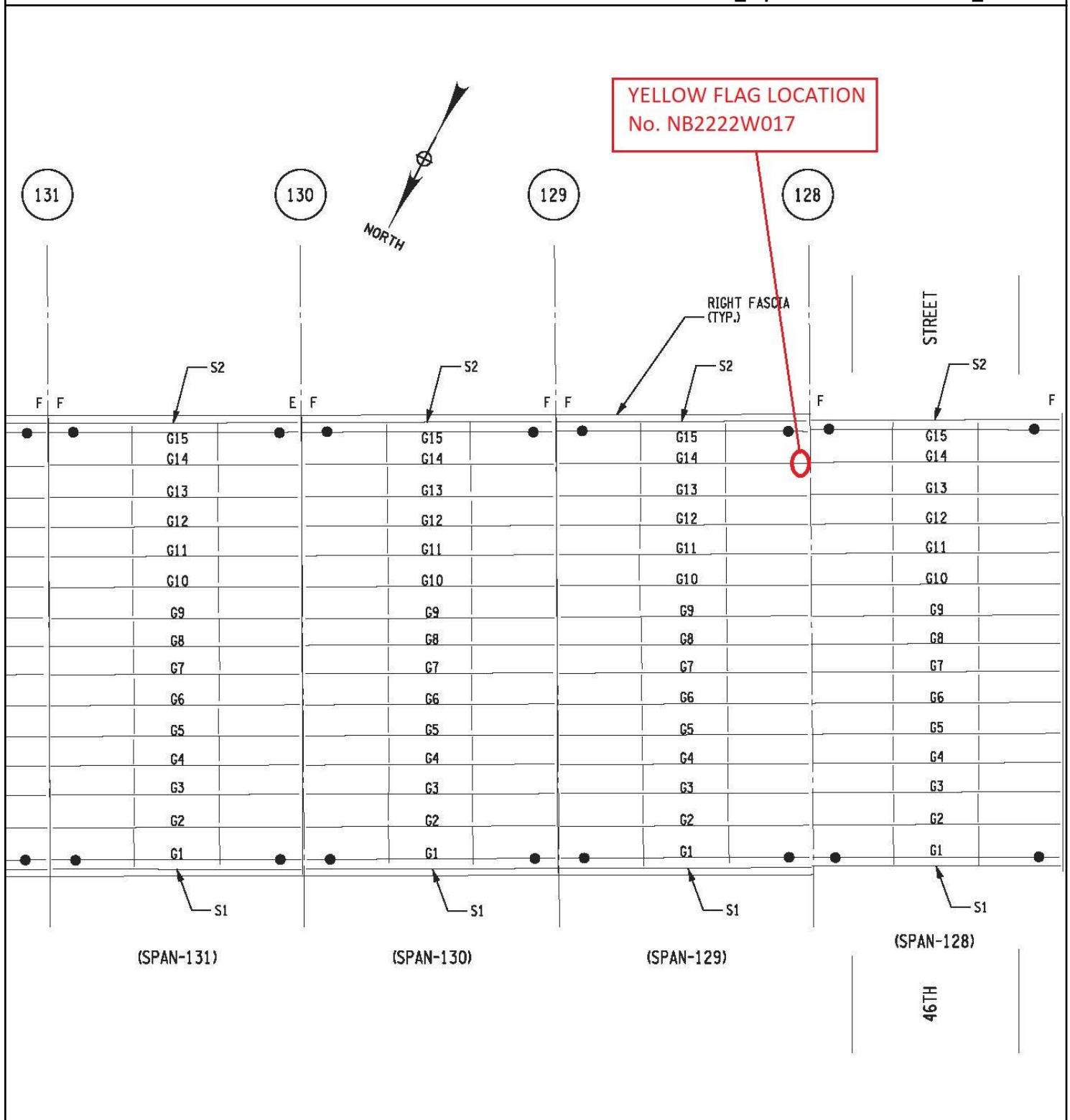
**Attachment Description: General view of framing plan with defect location.**

Photo Number: 2

Photo Filename: YF NB2222W017 _ Span 129 G4 at Pier 128 _ Sketch.

Gowanus Expressway
2022 Biennial Inspection - Field Sketch

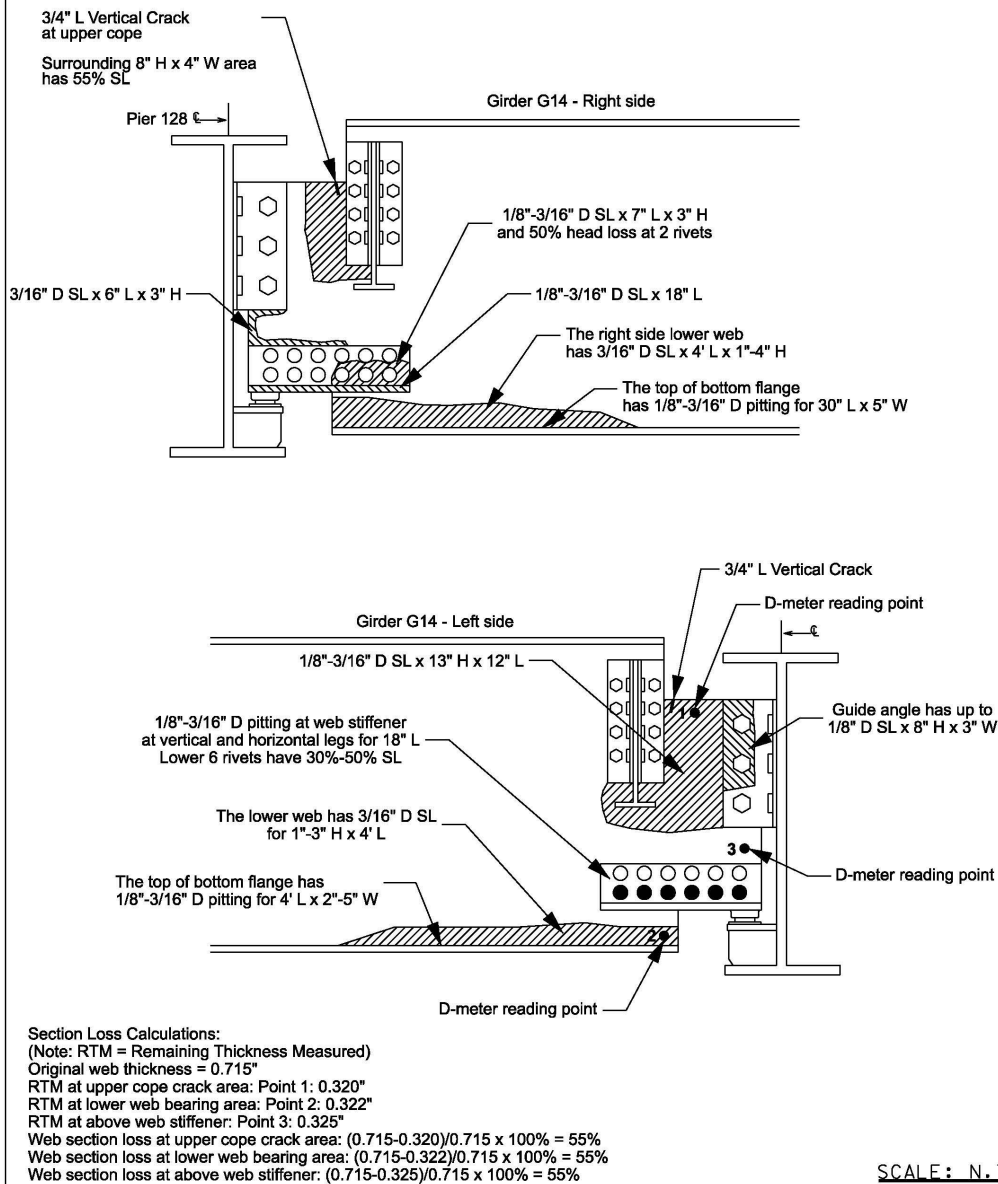
BIN: 1065318

Team: SB/CT

Date: 12/08/2022

Span: 129

Location: Girder G14 at Pier 128



wsp

Attachment Description: Sketch of defects at Girder G14 at Pier 128, Span 129.

Photo Number: 3

Photo Filename: PC082671.JPG



Attachment Description: General view of flagged location, G14 at Pier 128, Span 129. Looking begin.

Photo Number: 4

Photo Filename: PC082654.JPG



Attachment Description: Span 129, Girder G14 at Pier 128. The right side of web of Girder G14 at the top cope has a 3/4" L vertical crack. Looking left.

Photo Number: 5

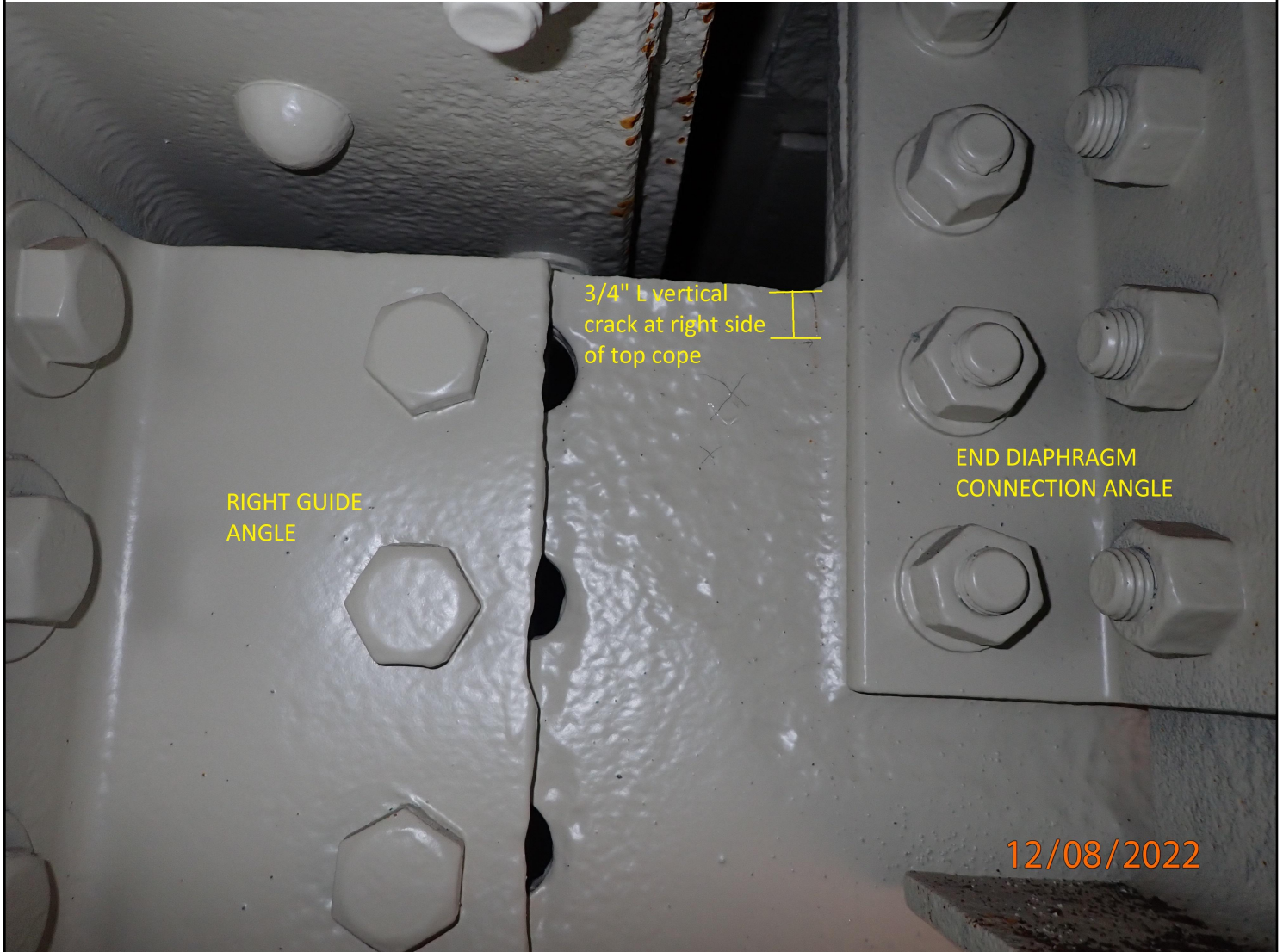
Photo Filename: PC082666.JPG



Attachment Description: Span 129, Girder G14 at Pier 128. The left side of the web of Girder G14 at the top cope has a 3/4" L vertical crack and the surrounding 13" H x 12" W area has up to 3/16" D section loss. Looking right.

Photo Number: 6

Photo Filename: PC082655.JPG



Attachment Description: The area surrounding the crack at the right side of Girder G14 has up to 3/16" D section loss over an 8" H x 4" W area. Looking left.

Photo Number: 7

Photo Filename: PC082651.JPG



PIER 128 - END FACE

GIRDER G14 - RIGHT SIDE OF WEB

12/08/2022

Attachment Description: The lower right side of web above the bottom flange of Girder G14 has up to 3/16" D section loss for 4' L x 1"-4" H. Looking begin left.

Photo Number: 8

Photo Filename: PC082663.JPG

GIRDER G14
LEFT SIDEPIER 128
END SIDE

12/08/2022

Attachment Description: The lower left side of the web of Girder G14 above the bottom flange has up to 3/16" D section loss for 4' L x 1"-3" H. Looking begin right.

Photo Number: 9

Photo Filename: PC082669.JPG



Attachment Description: The left web stiffener angle of Girder G14 has 1/8"-3/16" D section loss for 18' L and the 6 lower rivets have 30%-50% section loss. Looking right.